

IN THE CLAIMS

This listing of claims will replace all prior versions, and listings, of claims in the application:

1. - 21. (*Cancelled*).

22. (*Previously Presented*) A noncontact type IC card system comprising an external device which requests writing of data and a noncontact type IC card which performs the writing of the data in response to the request from the external device,

the external device comprising:

a sending section which sends a power wave for operations to the IC card; and

a transmitting section which transmits a write command to the IC card receiving the power wave for operations sent from the sending section,

the IC card comprising:

a voltage detecting section which detects a voltage level of an operating voltage generated from the power wave received from the external device;

a first checking section which detects by the voltage detecting section the voltage level of the operating voltage and checks whether or not the detected voltage level of the operating voltage is a predetermined voltage level, when the writing of the data to the memory is started in response to the write command received from the external device;

a write executing section which executes the writing of the data to the memory if the first checking section determines that the detected voltage level of the operating voltage is the predetermined voltage level;

a second checking section which detects the voltage level of the operating voltage obtained after the writing of the data to the memory is terminated, by the voltage detecting section, and which checks whether or not the detected voltage level is a predetermined voltage level;

a control section which executes again processings of the first checking section, the write executing section and the second checking section after waiting for a predetermined period of time, if the first checking section determines that the voltage level of the operating voltage is not the predetermined voltage level or if the second checking section determines that the voltage level of the operating voltage is not the predetermined voltage level; and

a setting section which sets the predetermined period of time in which the control section waits, in accordance with data prestored in the memory when the IC card starts by receiving the power wave for operations sent from the sending section of the external device.

23. (*Previously Presented*) The system according to claim 22, wherein the transmitting section of the external device transmits data representing the predetermined period of time in which the control section of the IC card waits in the processing, together with the data write command, and

the setting section sets the predetermined period of time in which the control section waits in the processing, in accordance with data transmitted from the transmitting section of the external device together with the data write command.

24. (*Previously Presented*) The system according to claim 22, wherein the setting section which sets number of times at which the processings of the first checking section, the write executing section and the second checking section are repeated in accordance with data prestored in the memory when the IC card starts by receiving the power wave for operations sent from the sending section of the external device, and

the control section repeats the processings of the first checking section, the write executing section and the second checking section at the number of times which is set by the setting section.

25. (*Previously Presented*) The system according to claim 22, wherein the transmitting section of the external device transmits data indicating the number of times at which the IC card repeats the processings of the first checking section, the write executing section and the second checking section, together with the data write command,

the setting section sets the number of times at which the processings of the first checking section, the write executing section and the second checking section are repeated in accordance with the data transmitted from the transmitting section of the external device together with the data write command, and

the control section repeats the processings of the first checking section, the write executing section and the second checking section at the number of times which is set by the setting section.

26. (*Previously Presented*) A noncontact type IC card system comprising an external device which requests writing of data and a noncontact type IC card which performs the writing of the data in response to the request for the writing of data from the external device,
the external device comprising:
a sending section which sends a power wave for operations to the IC card; and
a transmitting section which transmits a data write command to the IC card receiving the power wave for operations sent from the sending section,
the IC card comprising:
a rewritable nonvolatile memory;
an antenna which transmits data to an external device or receives the data therefrom;
a power generating section which receives a power wave transmitted from the external device, via the antenna, and generates an operating voltage with the received power wave;
a voltage detecting section which detects a voltage level of the operating voltage generated by the power generating section;
a first checking section which detects by the voltage detecting section the voltage level of the operating voltage generated by the power generating section and checks whether or not the detected voltage level of the operating voltage is a predetermined voltage level, when a write command of the data from the external device to the nonvolatile memory is received via the antenna;
a write executing section which executes the writing of the data to the nonvolatile memory if the first checking section determines that the detected voltage level of the operating voltage is the predetermined voltage level;
a second checking section which detects the voltage level of the operating voltage obtained after the writing of the data to the nonvolatile memory executed by the write executing section is terminated, by the voltage detecting section, and which checks whether or not the detected voltage level is a predetermined voltage level;
a control section which executes again processings of the first checking section, the write executing section and the second checking section after waiting for a predetermined period of time, if the first checking section determines that the voltage level of the operating voltage is not the predetermined voltage level or if the second checking section determines that the voltage level of the operating voltage is not the predetermined voltage level; and

a setting section which sets the predetermined period of time in which the control section waits, in accordance with data prestored in the memory when the IC card starts by receiving the power wave for operations sent from the sending section of the external device.

27. (*Previously Presented*) The system according to claim 26, wherein the transmitting section of the external device transmits data representing the predetermined period of time in which the control section of the IC card waits in the processing, together with the data write command, and

the setting section sets the predetermined period of time in which the control section waits in the processing, in accordance with data transmitted from the transmitting section of the external device together with the data write command.

28. (*Previously Presented*) The system according to claim 26, wherein the setting section sets number of times at which the processings of the first checking section, the write executing section and the second checking section are repeated in accordance with data prestored in the memory when the IC card starts by receiving the power wave for operations sent from the sending section of the external device, and

the control section repeats the processings of the first checking section, the write executing section and the second checking section at the number of times which is set by the setting section.

29. (*Previously Presented*) The system according to claim 26, wherein the transmitting section of the external device transmits data indicating the number of times at which the IC card repeats the processings of the first checking section, the write executing section and the second checking section, together with the data write command,

the setting section sets the number of times at which the processings of the first checking section, the write executing section and the second checking section are repeated in accordance with the data transmitted from the transmitting section of the external device together with the data write command, and

the control section repeats the processings of the first checking section, the write executing section and the second checking section at the number of times which is set by the setting section.